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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/599,138	06/22/2000	Jianhua Wang	NC18612	7352
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SCHEEF & STONE, L.L.P. 5956 SHERRY LANE SUITE 1400 DALLAS, TX 75225				
			EXAMINER ABELSON, RONALD B	
			ART UNIT 2666	PAPER NUMBER

DATE MAILED: 08/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/599,138

Applicant(s)

WANG ET AL.

Examiner

Ronald Abelson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 June 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 19 and 20 is/are allowed.
- 6) ☒ Claim(s) 1-3 and 16 is/are rejected.
- 7) ☒ Claim(s) 4-15, 17 and 18 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 June 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

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Specification

1. The disclosure is objected to because of the following informalities: Page 1 line 6, the serial number is missing. Page 1 line 7 contains an attorney docket number.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 19 recites the limitation "first packet data system logical layer" in line 7. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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5. Claims 1, 2, and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Forslow (WO 99/16266).

Regarding claim 1, Forslow teaches a packet radio communication system for communicating packet data (fig. 2), an improvement of an integrator (fig. 2 box 50) for integrating operation of a first packet data system element (fig. 2 box 51) with operation of a second packet data system having at least a second packet-data-system element (fig. 2 boxes 30, 12), thereby to form an integrated system of the packet radio communication system.

~~Forslow~~^{Forslow} teaches an integration element (fig. 1 box 50) at least functionally coupled between the first packet-data-system element and the second packet-data system element, said integration element for relaying packet data between the first packet-data system element and the second packet-data system element, the packet data of any selected information-element type of a plurality of types defined in either of the first packet data system and the second packet data system (pg. 5 lines 7-9).

Regarding claim 2, Forslow teaches a network infrastructure including a first and second fixed site transceivers (fig. 2 box

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30) with which a mobile station (fig. 2 box 12) is selectable connectable thereto by way of a radio link and wherein said integration element further maps identities of the first and at least second fixed site transceivers defined in the first packet data system to the corresponding identities (fig. 2 box Intra-PLMN IP backbone) defined in the second packet data system. Note, if the SGSN did not map the entities to the base stations to the Intra-PLMN IP backbone, the system would not work.

Regarding claim 16, Forslow teaches a method for communicating packet data in a radio communication system having a network infrastructure including a first fixed-site transceiver (fig. 1 box 32) and at least a second fixed-site transceiver (fig. 1 box 30 BS) with which a mobile station (fig. 1 box 12) is selectable connectable by way of a radio link, an improvement of a method for integrating operation of a first packet data system (fig. 2 box 30, 12) having at least a first packet data system element with operation of a second packet data system (fig. 2 box 51) having at least a second packet data system element, thereby forming an integrated system of the packet radio communication system.

Forslow teaches mapping identities of the first and at least second fixed site transceivers (fig. 2 boxes BS) defined

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in the first packet data system to corresponding identities (fig. 2 box Intra-PLMN IP backbone) defined in the second data packet system. Note, if the SGSN did not map the entities between the base stations and Intra-PLMN IP Backbone, the system would not work.

Forslow teaches relaying packet data between the first packet data system element and a selected one of the first and at least second fixed site transceivers, the packet data of any selected information element type of a plurality of elements defined in either of the first packet data system and the second packet data system (fig. 2 box 34, 51, pg. 5 lines 7-9).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Forslow as applied to claim 1 above, and further in view of Lupien (US 6,389,008).

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Regarding claim 3, although Forslow teaches an integrator (fig. 2 box 34) and at least a first and second fixed site transceivers coupled to the integrator, the reference is silent on the integration the reference is silent on an internetworking element coupled to the first and at least second fixed site transceivers and wherein a portion of said integrator is embodied at the IWE.

Lupien teaches an internetworking element / IWF coupled to integrator / SSGN (IWF, SSGN, col. 16 lines 46-47). Note, the examiner corresponds the applicant's IWE with Lupien's IWF

Therefore it would have been obvious to one of ordinary skill in the art, having both Forslow and Lupien before him/her and with the teachings [a] as shown by Forslow, a packet radio communication system for communicating packet data, an improvement of an integrator for integrating operation of a first packet data system element with operation of a second packet data system having at least a second packet-data-system element, thereby to form an integrated system of the packet radio communication system, and [b] as shown by Lupien, an integrated IWF and SSGN, to be motivated to modify the system of Forslow by replacing the SSGN with an integrated SSGN/IWF as shown by Lupien. This would improve the system by providing added IWF capabilities to the SSGN.

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Allowable Subject Matter

8. Claims 19-20 are allowed.

9. Claims 4-15 and 17-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claims 4 and 17, although the combination of Forslow and Lupien teaches an integration element, nothing in the prior art of the record teaches or fairly suggests a table mapping the identities of the first and at least second fixed site transceivers of the first packet data system and the identities of the first and at least second fixed site transceivers of the first packet data system, in combination with all the other limitations listed in the claim.

Regarding claim 5, although Faccin, Forslow, and Lupien teaches an integration element, nothing in the prior art of the record teaches or fairly suggests the integration element is embodied at the mobile station, in combination with all the other limitations listed in the claim.

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Regarding claim 19, although applicant's admitted prior art (pg. 5 lines 19-21) a first packet data system having a local layer (pg. 5 lines 19-21, lower layers, WLAN protocol) and a second packet and a second packet data system having a logical layer (pg. 5 lines 19-21, logical layers, GPRS protocol), nothing in the prior art of the record teaches or fairly suggests an integration logical layer positioned between the two layers, in combination with all the other limitations listed in the claim.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald Abelson whose telephone number is (703) 306-5622. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (703) 308-5463. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ra
Ronald Abelson
Examiner
Art Unit 2666

8/23/04



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